San Benito County Water District
Groundwater Sustainability Agency

Community Workshop

November 14, 2018

Introduction to SGMA and the GSAs

Sustainable Groundwater Management Act (SGMA)

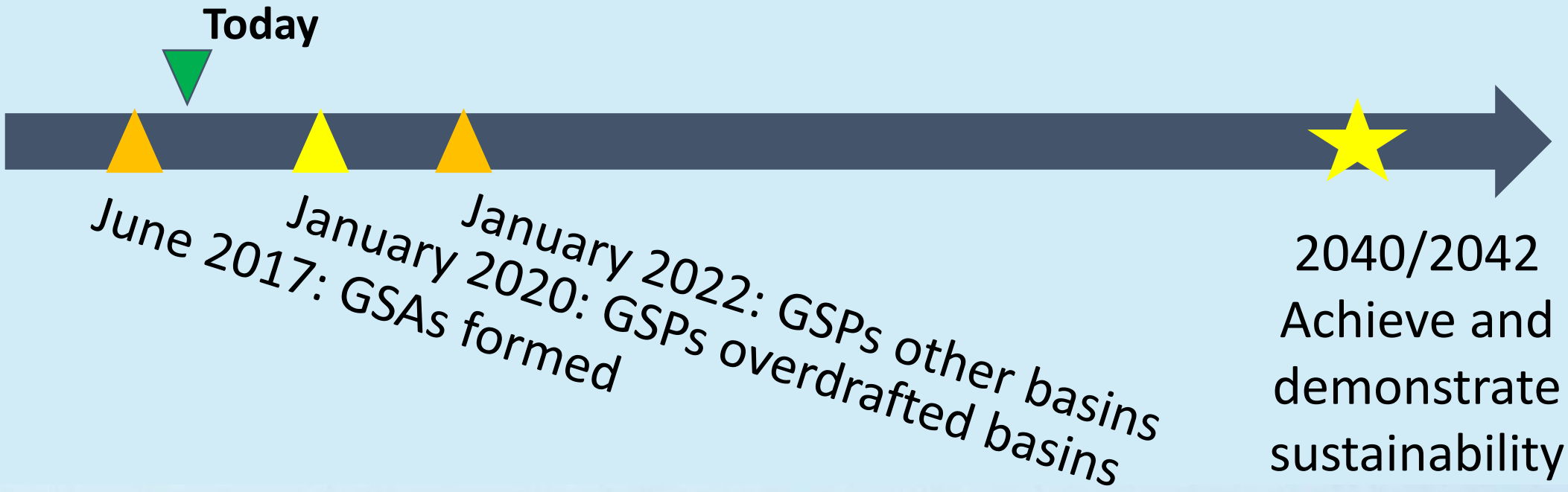
Landmark legislation in 2014

- Based on local control
- State assistance, and intervention if necessary

Includes comprehensive requirements for:

- Forming a groundwater sustainability agency (GSA)
- Preparing a groundwater sustainability plan (GSP)
- Meeting deadlines

SGMA has a required timeline



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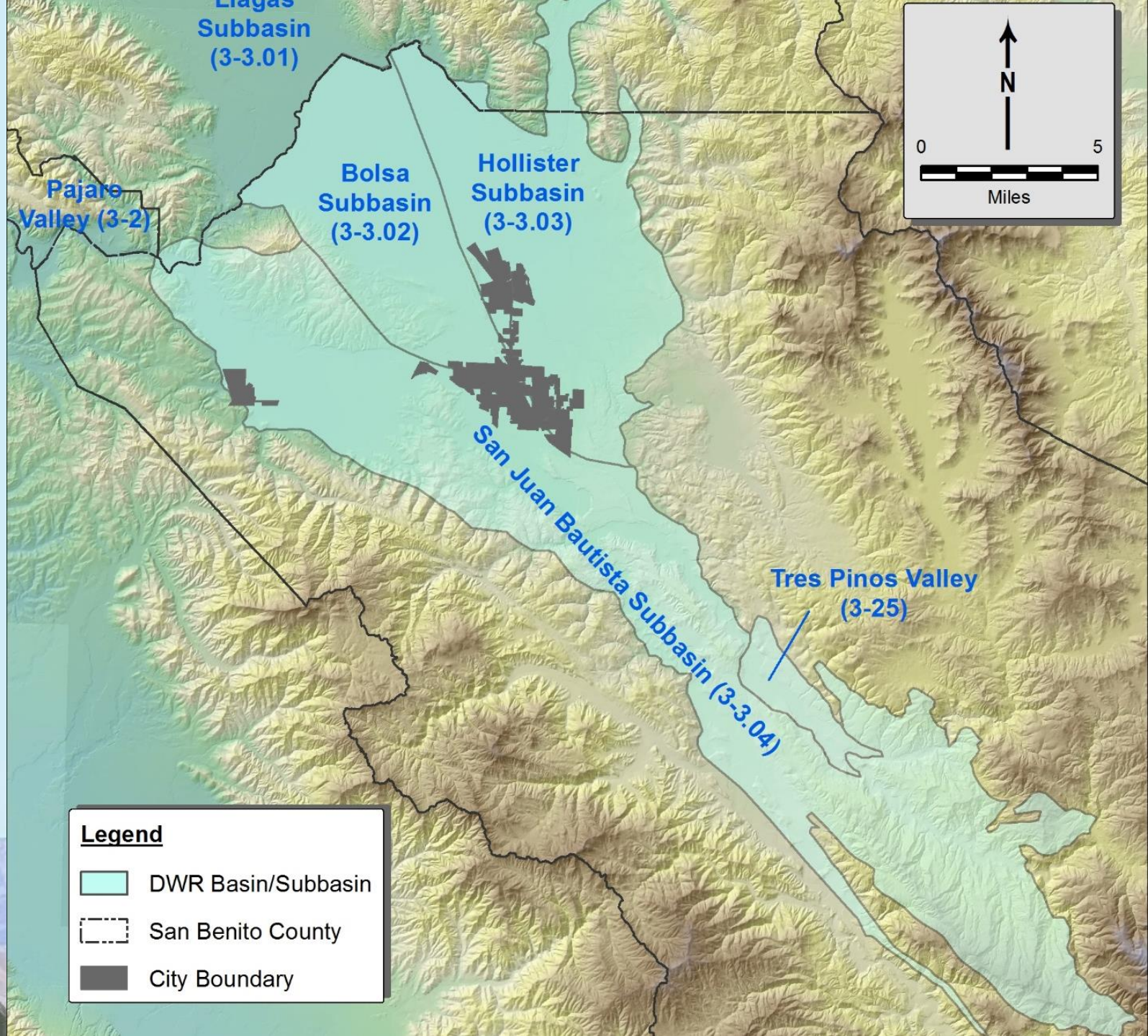
SBCWD GSA is leading the GSP

- San Benito County Water District GSA and
- Santa Clara County Water District GSA
- Agreement for cooperative planning, data sharing, outreach, GSP preparation



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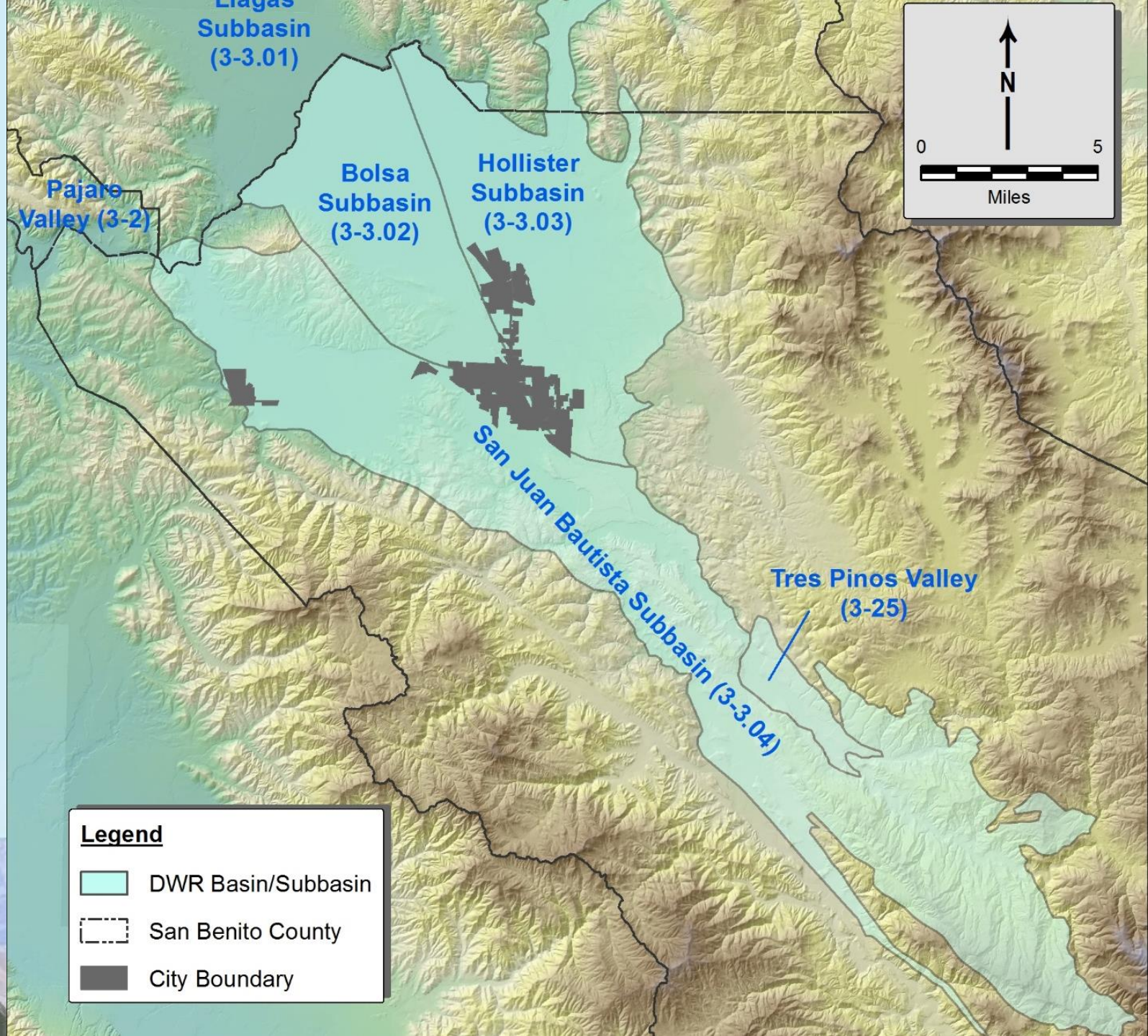
GSP Plan Area

Four basins to be consolidated

- Contiguous and connected
- Managed together historically
- Would allow preparation of one, unified GSP



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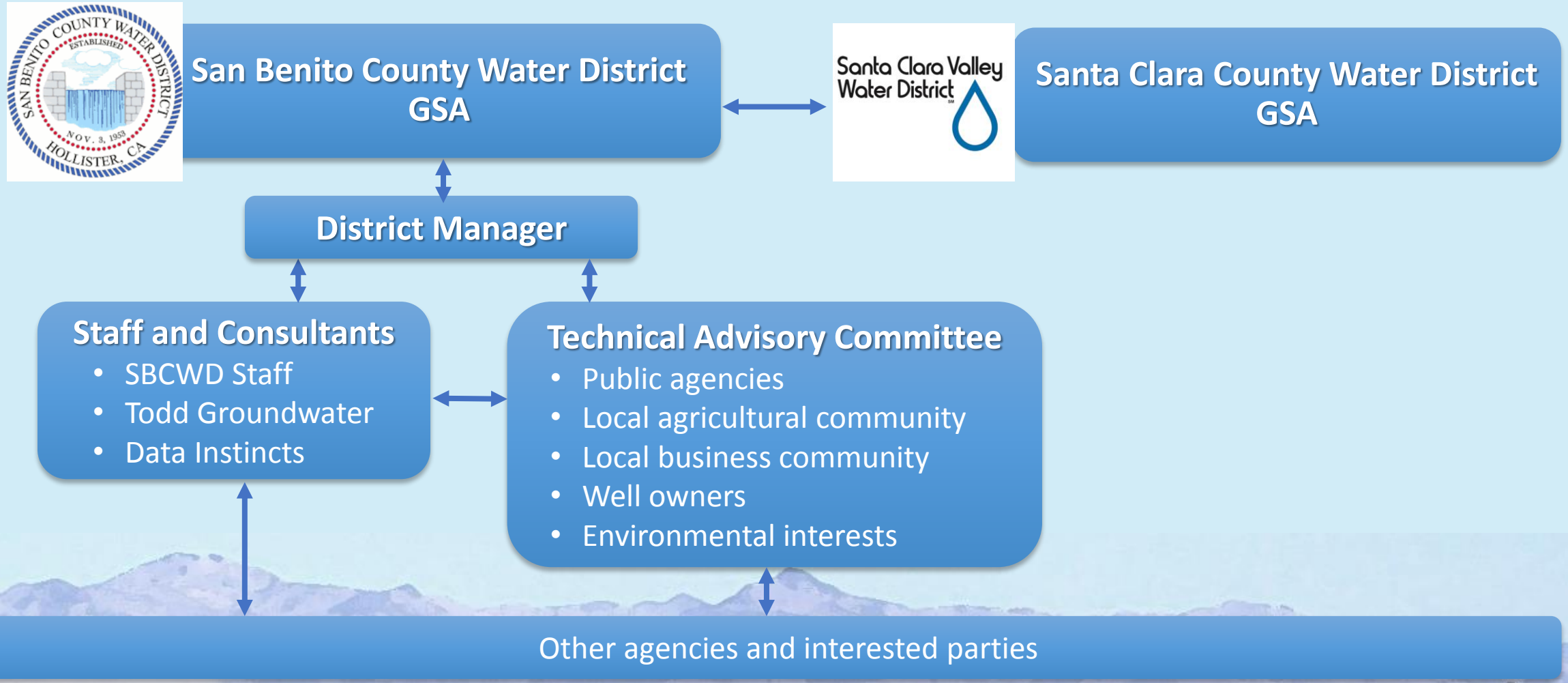
GSA Organization



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The GSP Process

The GSP builds on existing management

- Management of local groundwater
- Development of local surface water supplies
- Importation of CVP water
- Water recycling and water conservation
- Monitoring
- Collaboration with local agencies
- Annual Groundwater Reports

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GSP preparation has begun

- Awarded grant for $830,000 for GSP preparation
- GSP team has assembled
- SBCWD created new website with SGMA page
- Initiated technical work on GSP
- Introduction and Plan Area sections on website soon

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Groundwater Sustainability Agency
San Benito County Water District

Sustainable Groundwater Planning Grant

For the San Juan Bautista, Bolsa, Hollister Groundwater Basins

November 2017

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GSP Overview

2021

2020

2019

2018

Plan Development

Management Actions / Monitoring

Sustainability Criteria

Water Budgets

Hydrogeologic Conceptual Model / Groundwater

Data Compilation / Data Management System

Plan Area / Institutional Setting

Do we have the needed data? How will it be organized?

- Hydrology
- Topography, soils, land use
- Hydrogeology
- Groundwater
- Water supplies and use
- Managed recharge

Data

DMS

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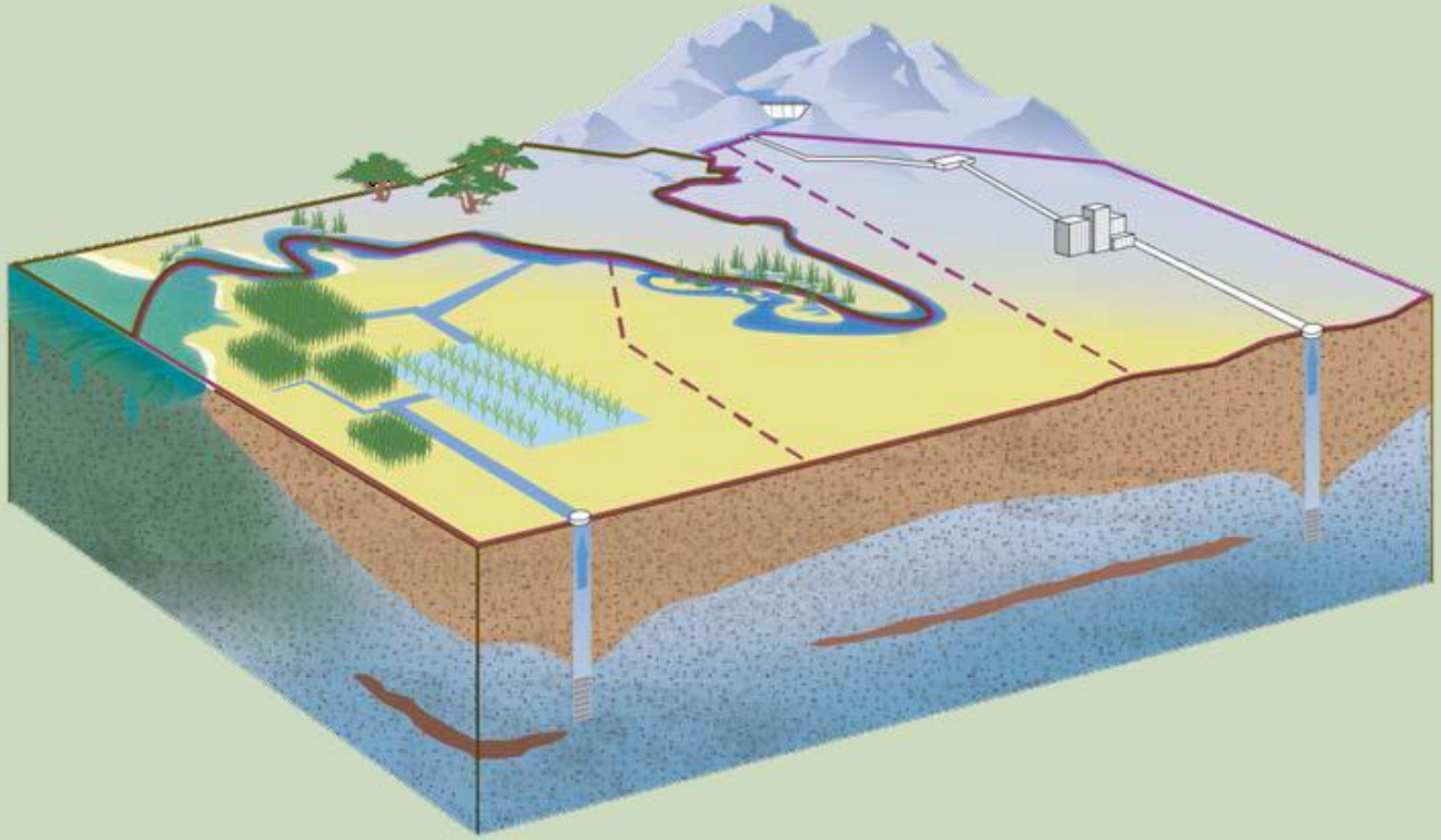
Hydrogeologic Conceptual Model

How does the groundwater/surface water system work?



Descriptions

Boundaries
Geology
Aquifers and aquitards
Aquifer properties
Groundwater pumping and use
Groundwater quality
Cross-sections

Maps

Topography
Geology
Soils
Recharge and discharge areas
Surface water features
Imported water supplies

Groundwater Conditions: What is the state of the basin?

Current and historical:

- Groundwater elevation maps and hydrographs
- Change in groundwater storage
- Groundwater quality issues
  - e.g., contamination sites, salt and nutrient loading
- Subsidence extent and rate (if any significant)
- Interconnected surface water systems
  - Where, what are groundwater dependent ecosystems (GDEs)?

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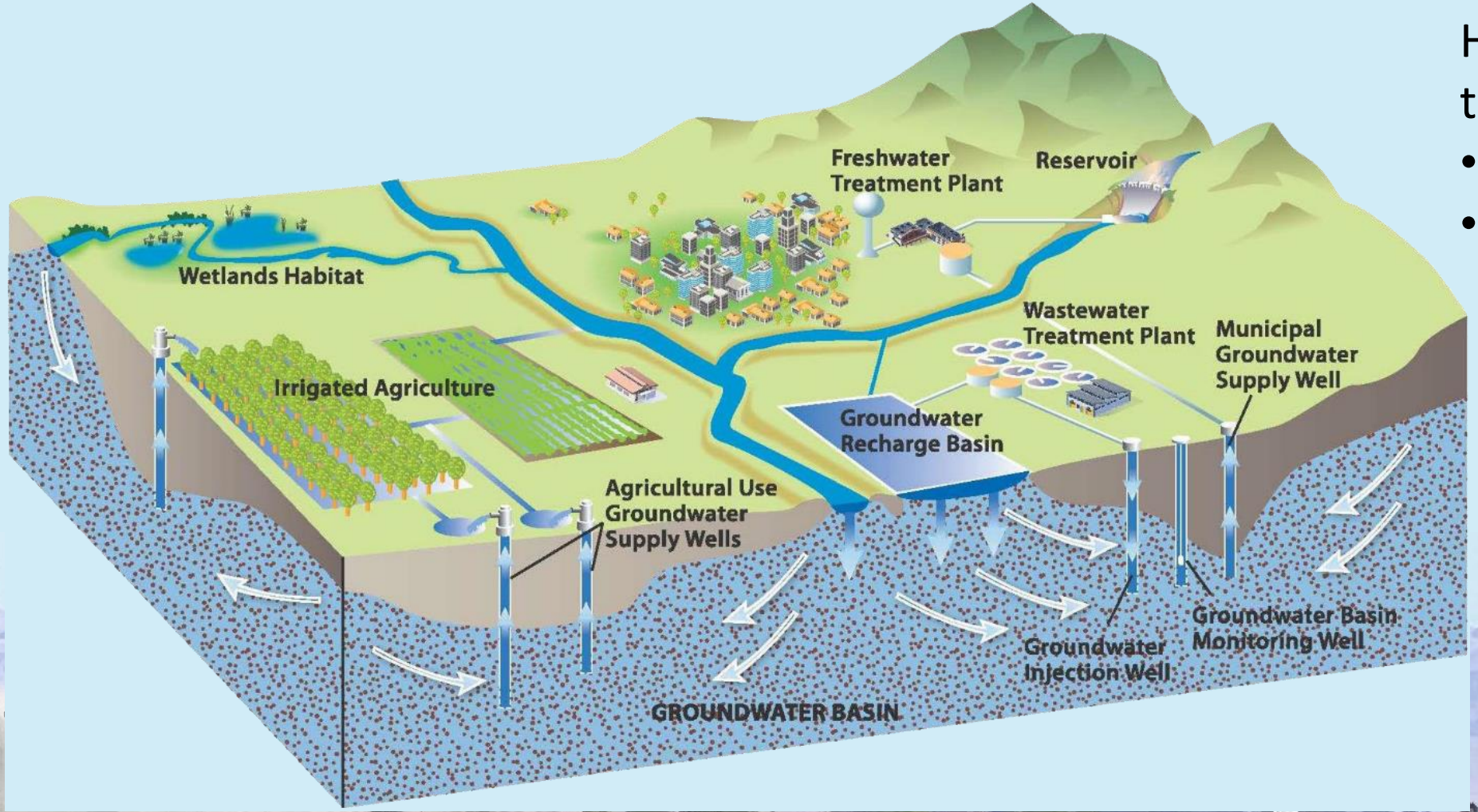
Water Budgets

What are the inflows, outflows, and change in storage?

How well do we know the water budget?

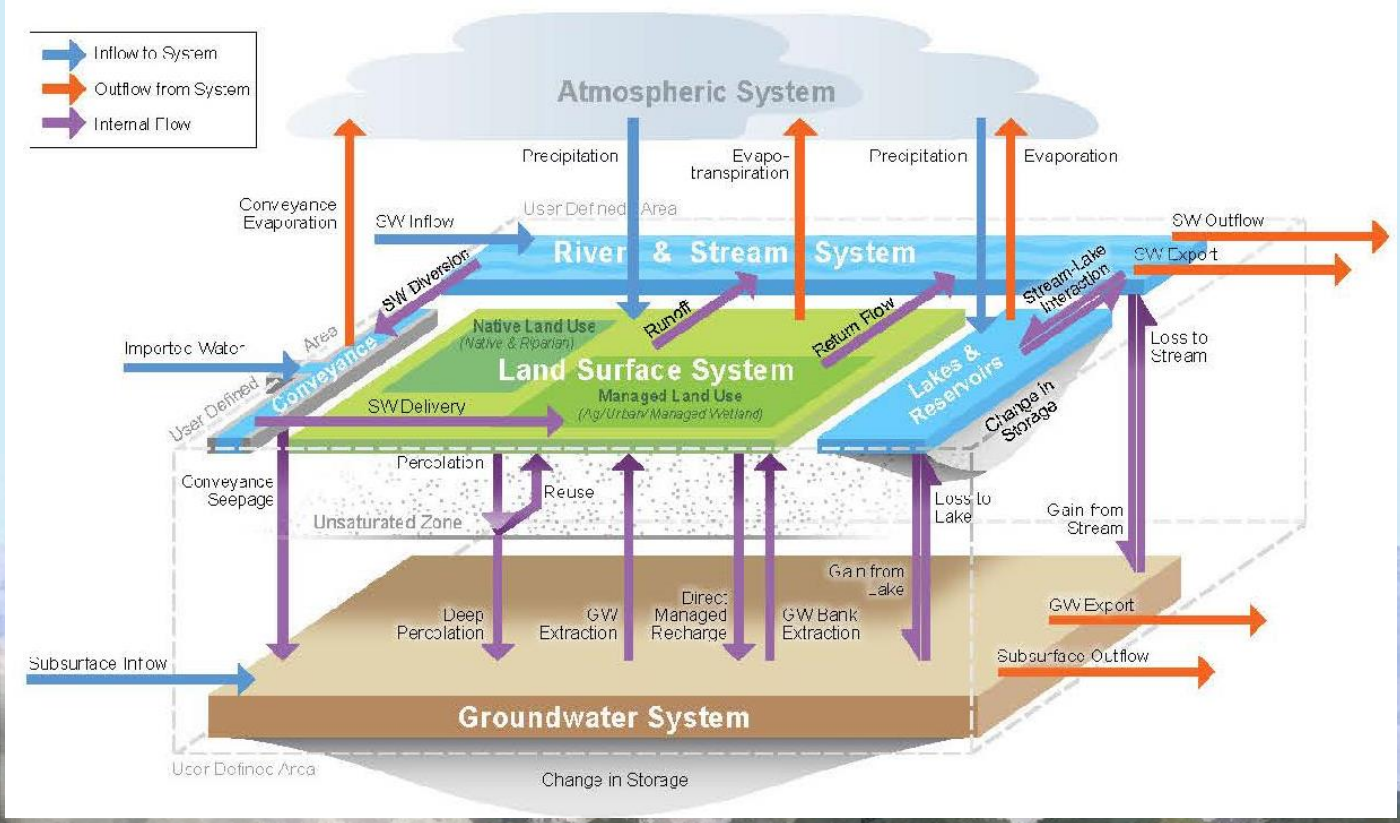
- Data gaps
- Future uncertainty



We will apply numerical modeling

A useful tool that:

- Delineates the hydrogeologic framework
- Quantifies the water budget



And is used to:

- ➢ Help identify data gaps
- ➢ Help improve monitoring
- ➢ Evaluate future conditions
- ➢ Analyze management actions

We will define: what Is sustainability?

Sustainable yield:

maximum long-term quantity of water that can be withdrawn annually without causing *an undesirable result*

- lowering of groundwater levels
- reduction of groundwater storage
- ~~seawater intrusion~~
- degraded water quality
- land subsidence
- surface water depletions with adverse impacts on beneficial uses

Management actions and projects will be defined

Build on existing management projects, programs, policies

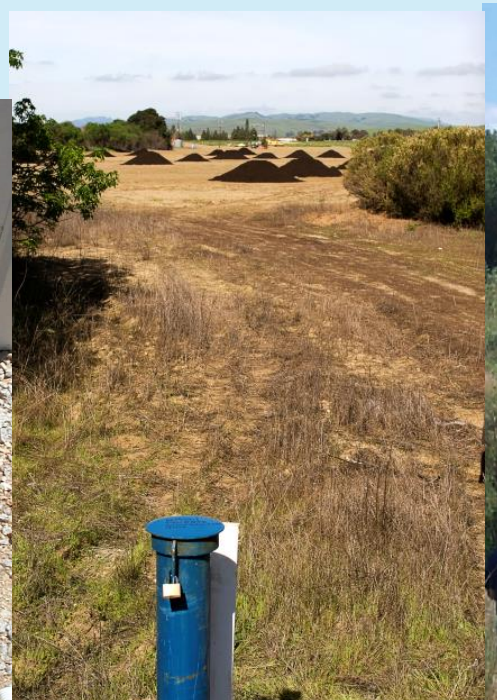
Respond to new challenges and uncertainties

Monitoring Program

GSP will update and expand the monitoring program

Allows us to:

- Track changes
- Identify problems
- Demonstrate sustainability



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GSP Development

Preparation of draft sections:

- Introduction and Plan Area
- Hydrogeologic Conceptual Model and Groundwater Conditions
- Management Areas
- Water Budget
- Sustainability Criteria
- Management Actions and Projects
- Monitoring Program

Draft and Final GSP

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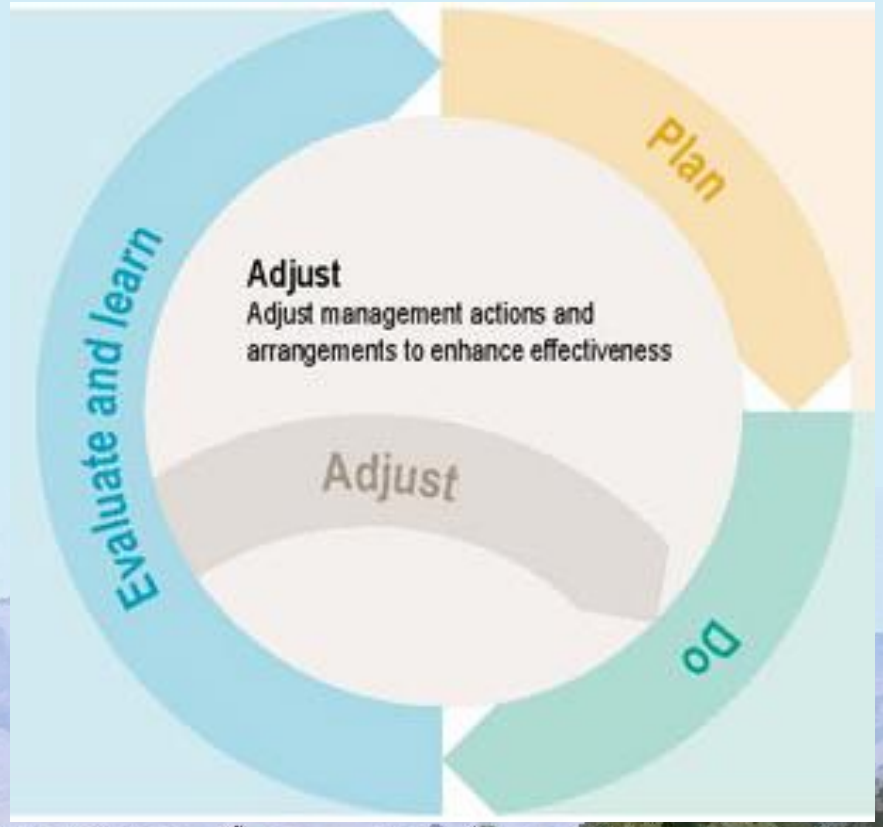
GSP Process is ongoing and adaptive

- Need to complete GSP by 2022 to maintain local control
- DWR will evaluate GSP for compliance
- GSP process will continue
  - Annual Reports
  - GSA assessment of GSP every five years



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Outreach: your participation is encouraged

Help us create a plan to ensure sustainable, reliable groundwater now and into the future

Our goals are to:

- Enhance public understanding about water resources in the basin
- Keep you—the public and stakeholders—informed about the GSP
- Engage diverse interested parties and stakeholders
- Respond to your concerns

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How do I learn more?

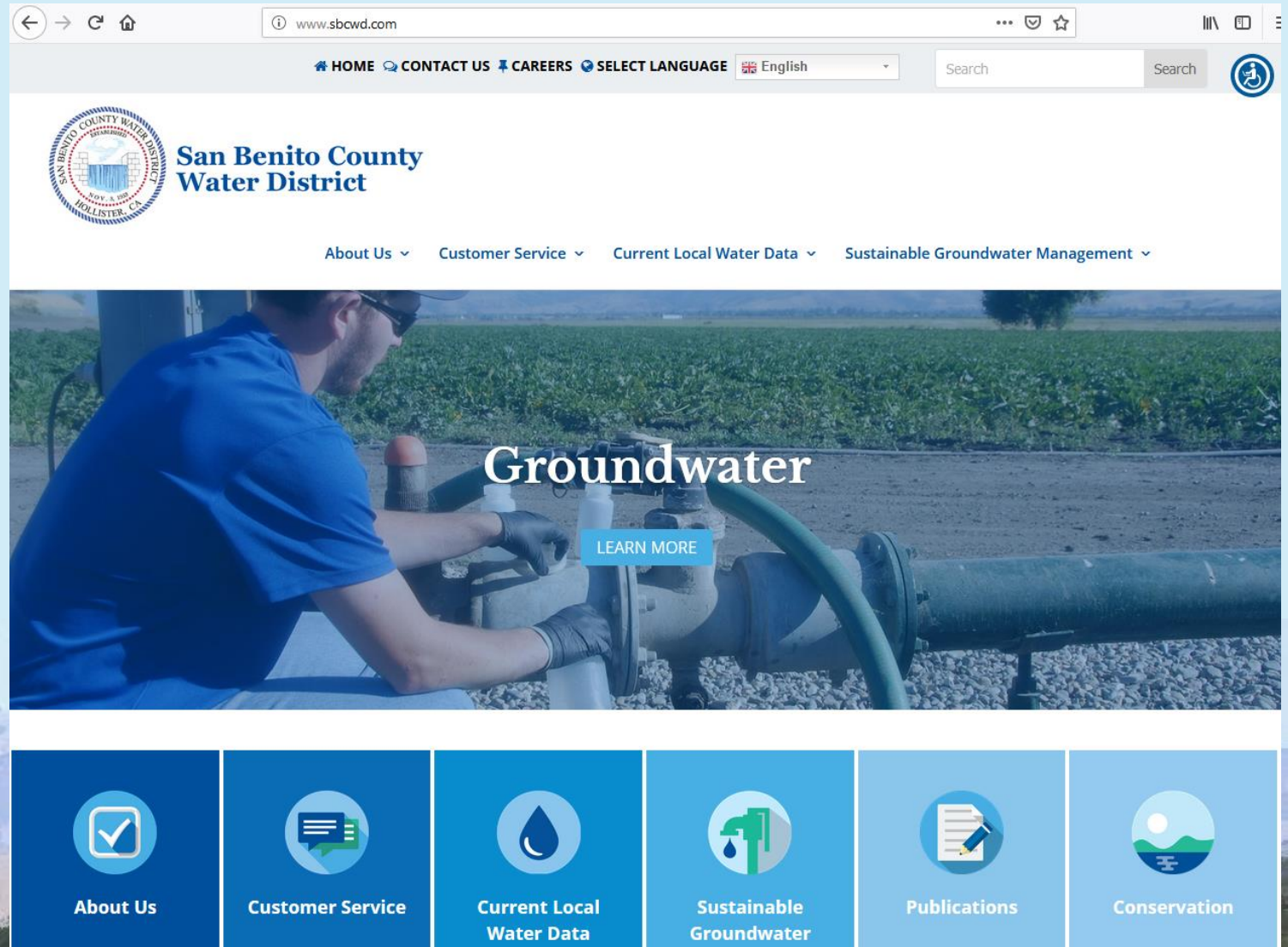
Read a Fact Sheet:

- GSP Overview
- GSP Requirements
- Water Management

Go to www.sbcwd.com

- About SBCWD, SGMA
- About groundwater
- FAQs
- Announcements
- Resources and links

Workshops and presentations



www.sbcwd.com/sustainable-groundwater-management/

San Benito County Water District

About Us | Customer Service | Current Local Water Data | Sustainable Groundwater Managemen

Sustainable Groundwater Management

Haga clic aquí para español

For many decades, the San Benito County Water District (SBCWD) has been a steadfast steward of groundwater resources in San Benito County, actively managing the groundwater basins to protect water quality and maintain a reliable and sustainable water supply. For SBCWD and other water agencies, it's getting more and more difficult to ensure long-term groundwater sustainability, with climate variability, growth in both urban and agricultural land use, changes in types of agricultural uses, availability and cost of imported water, and other factors.

To assist water agencies like SBCWD in meeting these significant groundwater challenges, the state-wide Sustainable Groundwater Management Act was passed in 2014. This law outlines new requirements and tools for ensuring the long-term sustainability of these critical sources of water supply.

Updates:

October 2018

Preparation of the GSP document is underway. The GSP process—involving

About SGMA
SBCWD's Role & Responsibilities
About Groundwater & Our Basins
Community Involvement
Resources and Documents
Frequently Asked Questions
Gestión sustentable del agua subterránea

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SBCWD activities

Stay tuned to www.sbcwd.com

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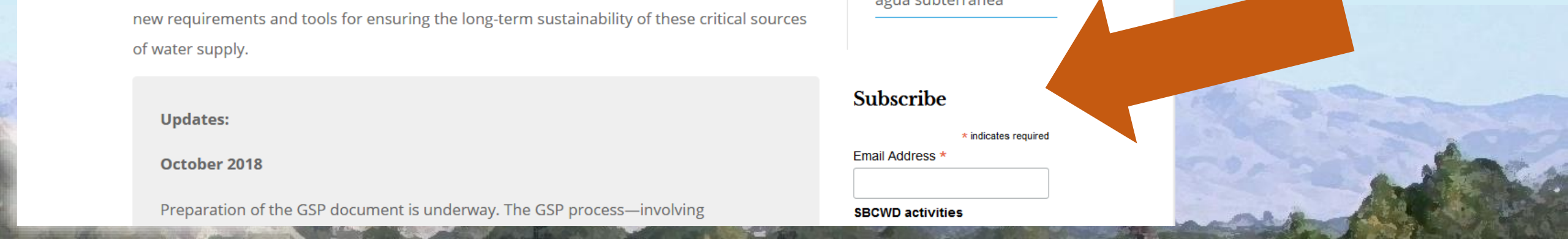

Introduction and Plan Area

Introduction and Plan Area

General Information

- Executive summary in plain language

Agency Information

- GSA management, legal authority
- Estimated cost of GSP implementation; how GSAs plan to meet cost

Description of Plan Area

- Jurisdictional boundaries
- Existing monitoring and management programs
- Well distribution
- Land use designations
- Plain language description of land use plans

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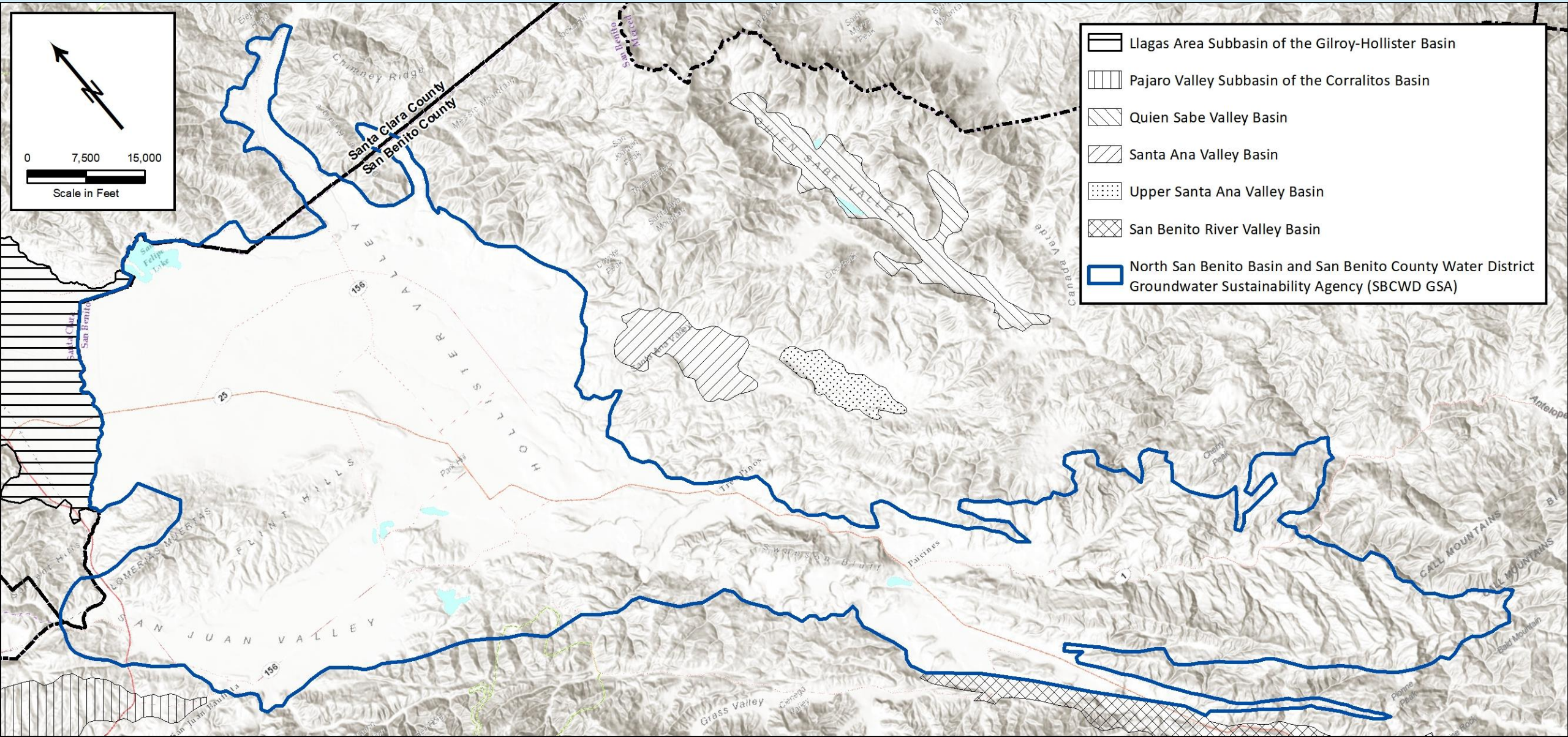
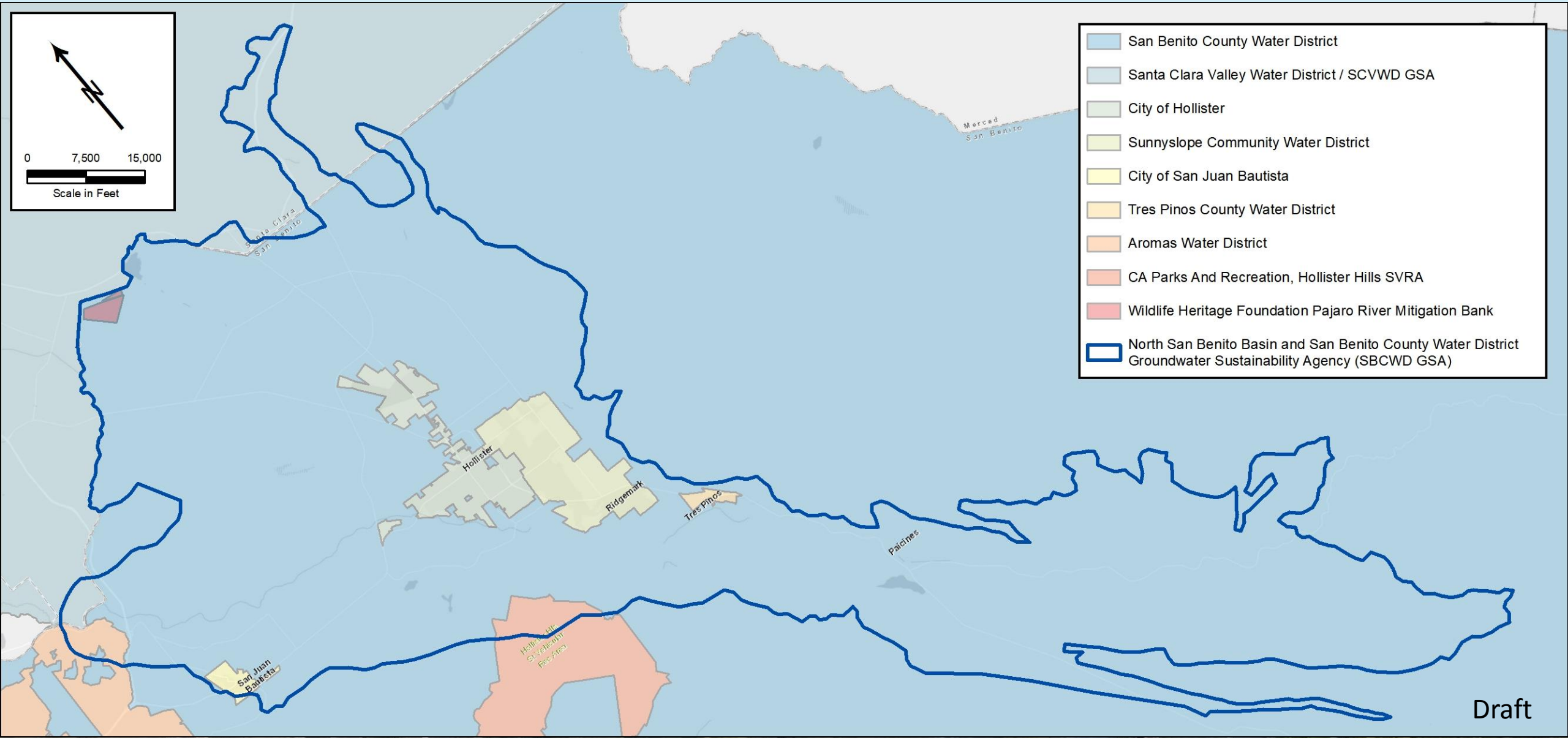
GSP Introduction: North San Benito Basin



GSP Introduction: Jurisdictional boundaries



Introduction and Plan Area: Work in Progress

- *Draft* until GSP nears completion in 2021
- Includes topics for discussion now and completion later
  - What is our goal and how we will achieve it?
  - What is the cost of GSP implementation and how will GSAs fund it?
  - How might GSP implementation affect land use planning?
  - How might land use planning change water demand and supply and affect ability to achieve sustainability?

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What is sustainability? What does it mean for North San Benito?

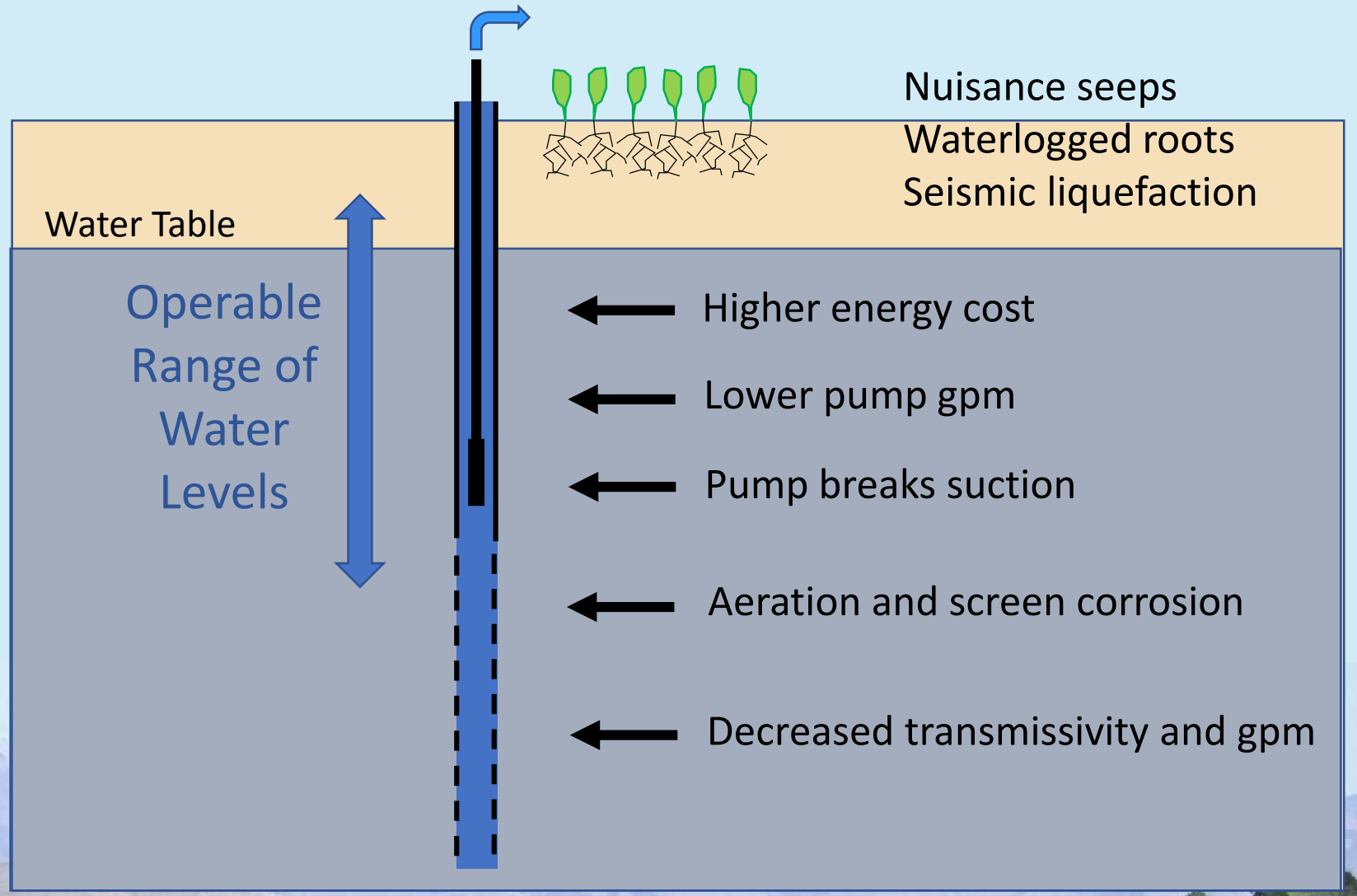
Sustainability Criteria

- lowering of groundwater levels
- reduction of groundwater storage
- degraded water quality
- land subsidence
- surface water depletions with adverse impacts on beneficial uses

Sustainability criteria: groundwater levels

What undesirable effects do we want to avoid?

- Impacts on shallow wells?
- Soil drainage problems?



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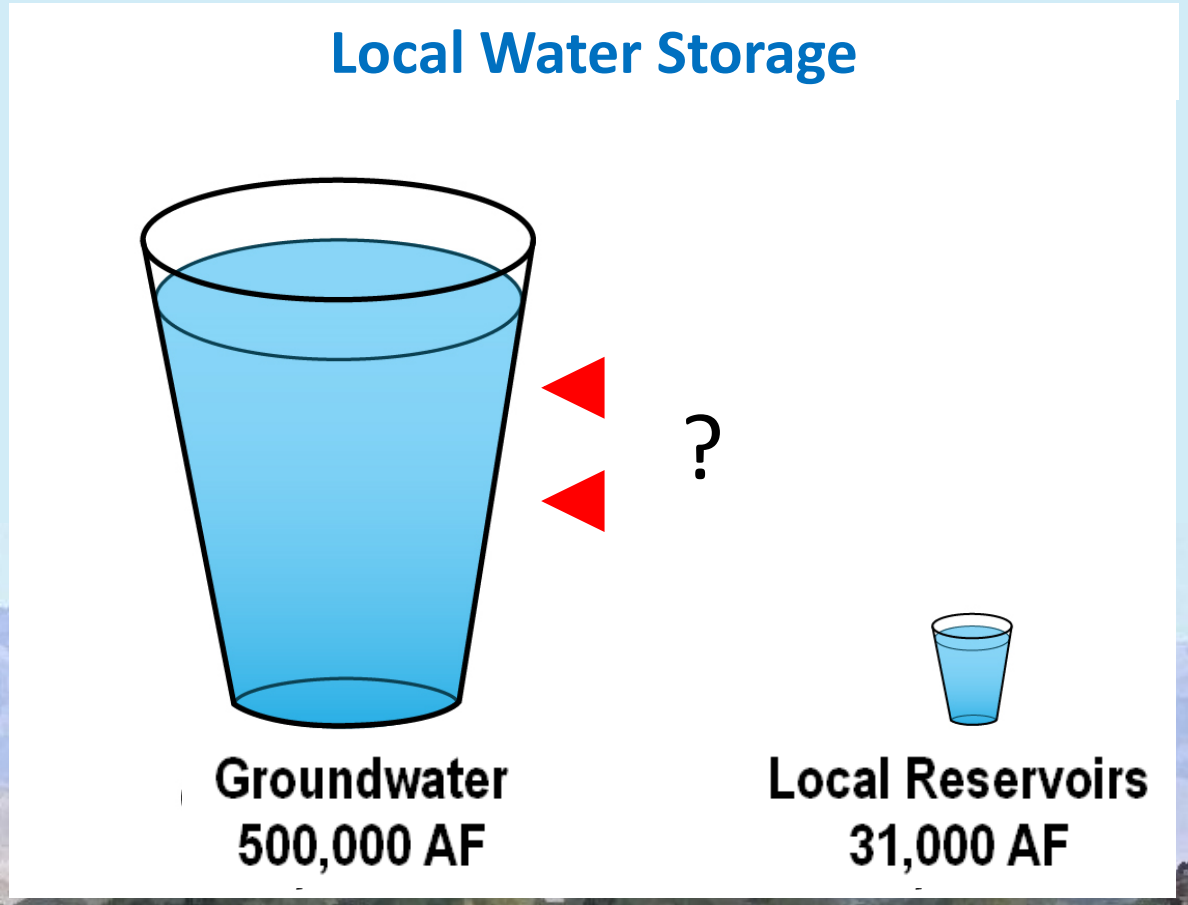
Sustainability criteria: groundwater storage

How much stored groundwater do we want for drought or shortage?



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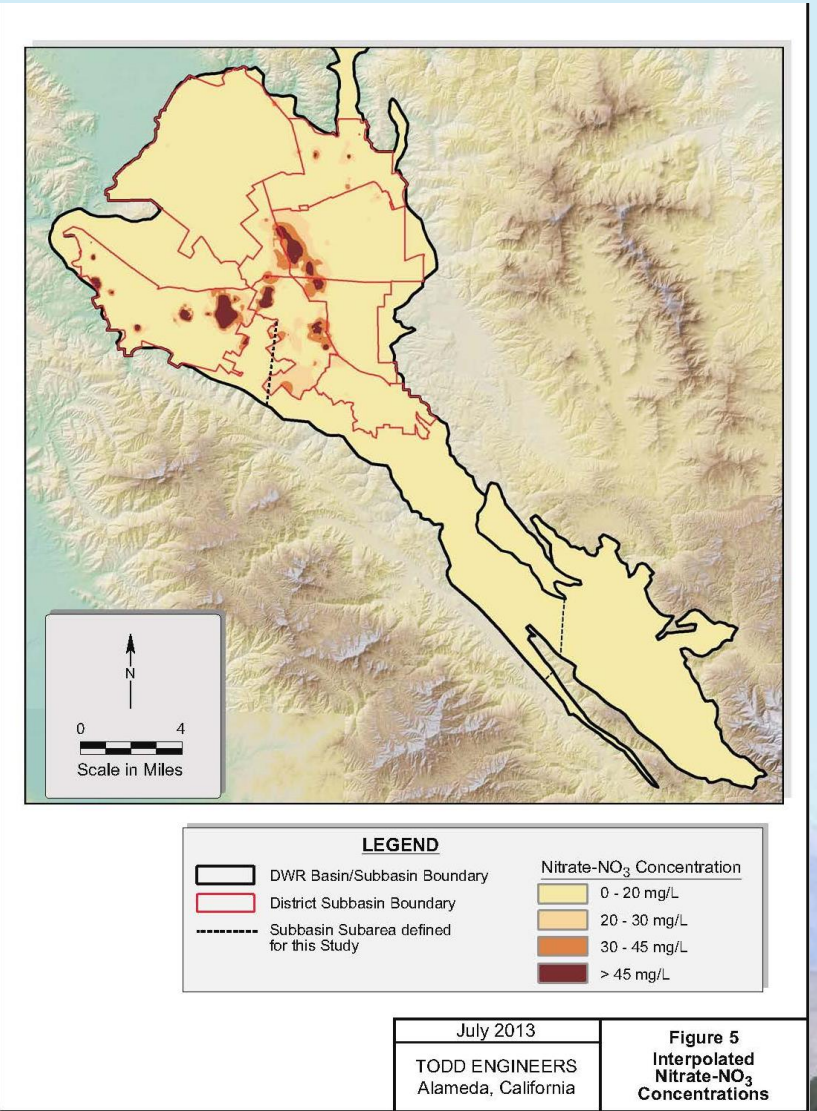
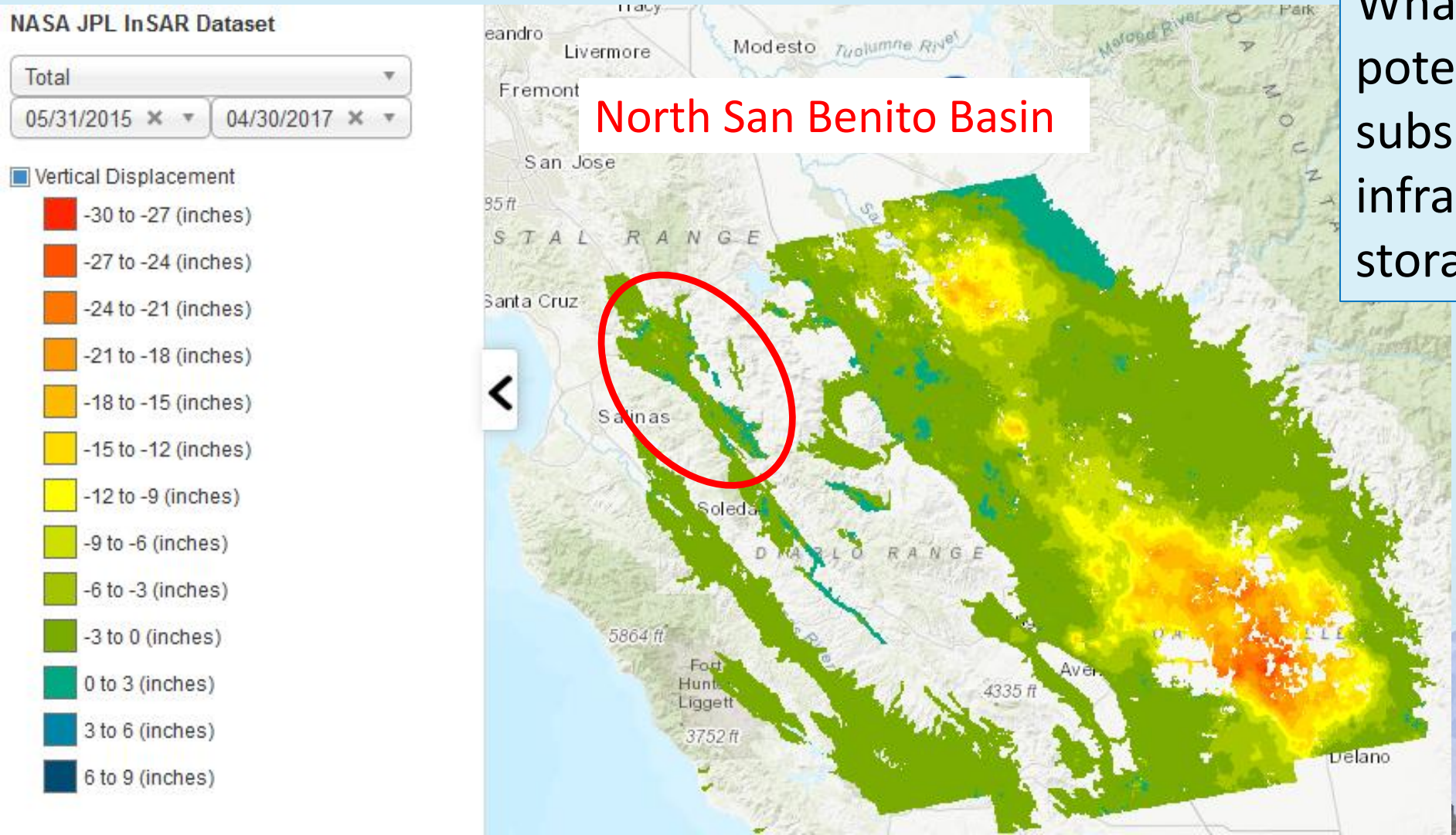
Sustainability criteria: groundwater quality



What are the undesirable results?

- Migration or spread of plumes?
- Salt and nutrient loading?

Sustainability criteria: land subsidence



What is the local potential for land subsidence that damages infrastructure and basin storage capacity?

Sustainability criteria: surface water depletion

Where groundwater and surface water are connected, what are potential undesirable results?

- Groundwater Dependent Ecosystems (GDEs) including riparian vegetation, wetlands, fish
- downstream surface water users

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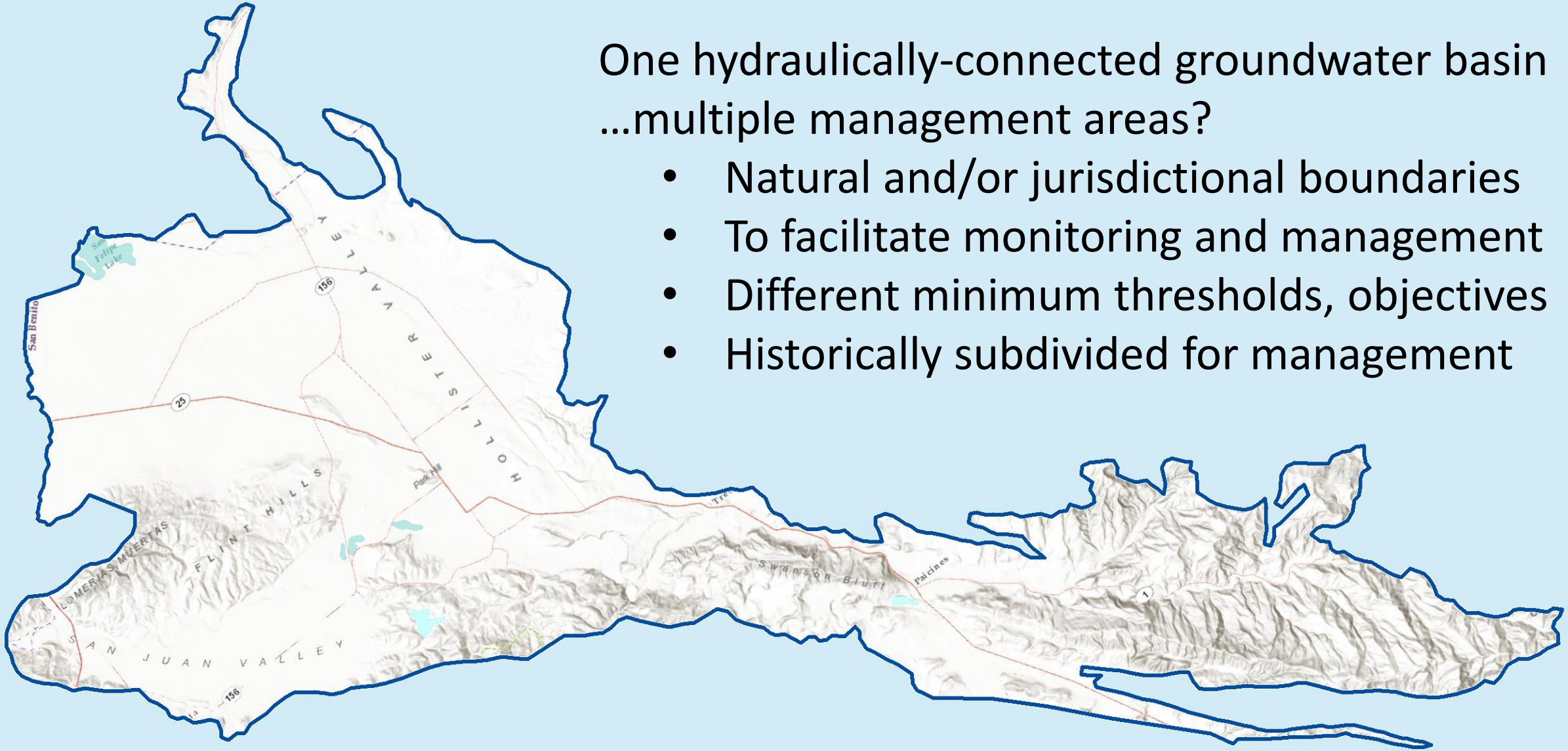
How do we manage across this basin?



One hydraulically-connected groundwater basin …multiple management areas?

- Natural and/or jurisdictional boundaries
- To facilitate monitoring and management
- Different minimum thresholds, objectives
- Historically subdivided for management

Questions and Answers

What's next?

SBCWD Board of Director's Meeting • Annual Groundwater Report • SGMA update and discussion	January 14, 2019
TAC Meeting No. 3	January 14, 2019
Workshop No. 2: Groundwater Conditions	April 2019

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